Supplemental Document

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Effects of high intensity non-ionizing terahertz radiation on human skin fibroblasts: supplement

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In the course of this work, we also studied the activity of heat shock proteins as a result of thermal exposure to various temperatures. It is noteworthy that the activation of HSP70 took place in both hypothermia and hyperthermia (Fig. S1). However, during hyperthermia, the expression of heat shock proteins increased significantly. A good fluorescence signal was observed starting from 40°C, it increased maximally at 42.5°C and did not change at 45°C. However, at 45°C, cell deformation and the appearance of some parts of apoptotic cells in culture were observed.

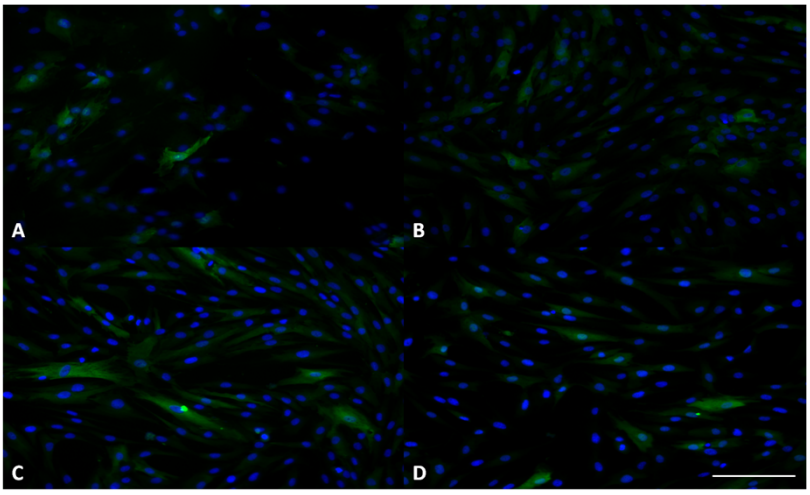

Fig. S1. Expression of heat shock proteins (HSP70) in human skin fibroblasts at different temperatures. (a) 4°C, (b) 40°C, (c) 42.5°C, (d) 45°C.